

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
 Data File : VN074706.D  
 Acq On : 01 Oct 2022 10:28  
 Operator : JC\MD  
 Sample : sample  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 03 02:14:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 30 07:44:59 2022  
 Response via : Initial Calibration

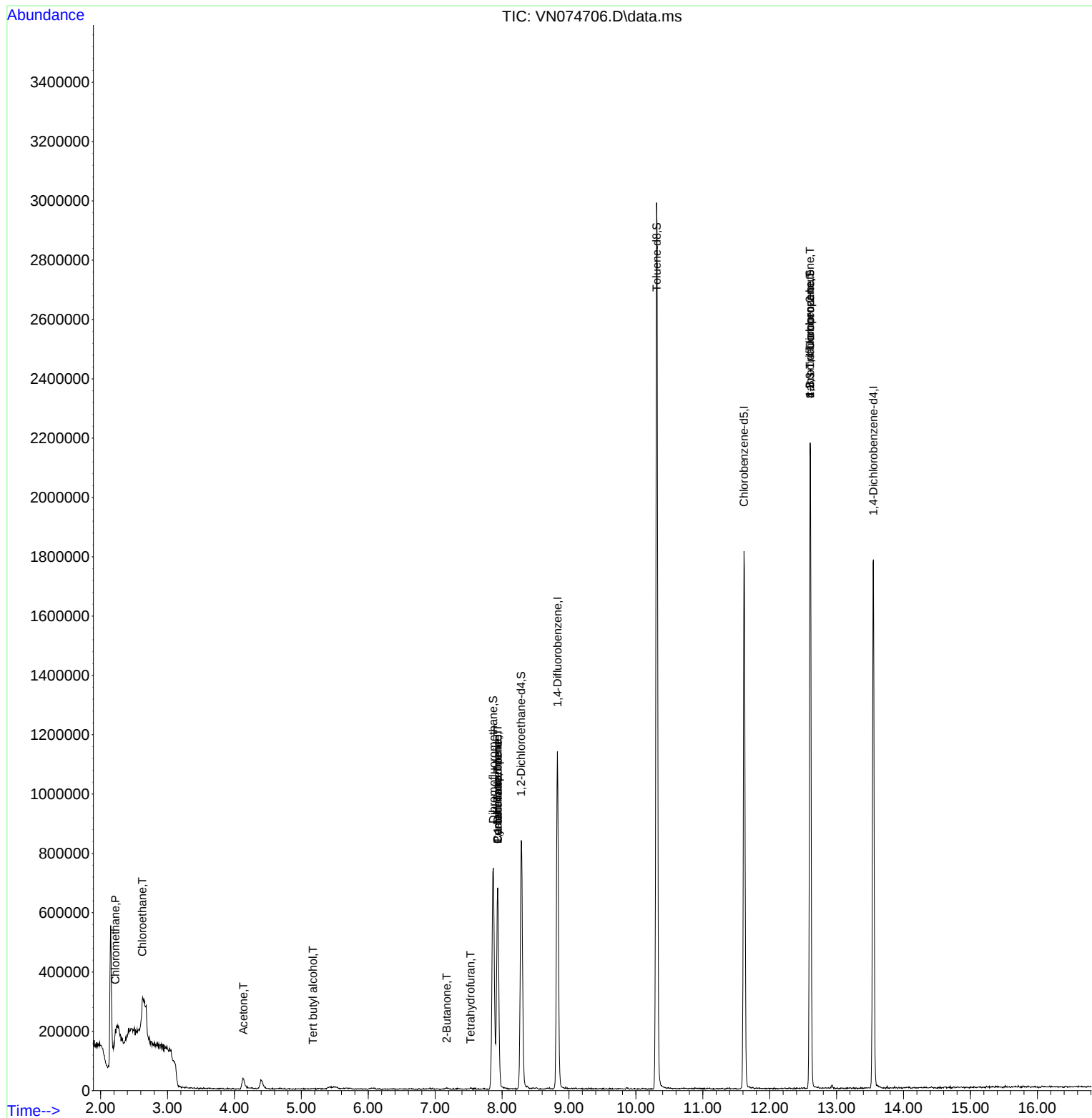
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.933  | 168   | 494957   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.828  | 114   | 939716   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.616 | 117   | 942808   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.551 | 152   | 426997   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.286  | 65    | 641684   | 51.729    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 103.460% |          |
| 35) Dibromofluoromethane      | 7.869  | 113   | 526189   | 52.902    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 105.800% |          |
| 50) Toluene-d8                | 10.310 | 98    | 1988767  | 47.535    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 95.080%  |          |
| 62) 4-Bromofluorobenzene      | 12.604 | 95    | 632979   | 47.713    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 95.420%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.222  | 50    | 6073     | 0.401     | ug/l       | 89       |
| 6) Chloroethane               | 2.622  | 64    | 39018    | 2.307     | ug/l #     | 57       |
| 8) Diethyl Ether              | 3.693  | 74    | 63       | Below Cal | #          | 1        |
| 11) Tert butyl alcohol        | 5.175  | 59    | 988      | 0.298     | ug/l #     | 72       |
| 13) Acrolein                  | 3.893  | 56    | 349      | Below Cal | #          | 16       |
| 16) Acetone                   | 4.134  | 43    | 60009    | 4.373     | ug/l #     | 88       |
| 20) Methylene Chloride        | 4.881  | 84    | 403      | Below Cal | #          | 10       |
| 25) 2-Butanone                | 7.175  | 43    | 4074     | 0.357     | ug/l #     | 45       |
| 29) Tetrahydrofuran           | 7.528  | 42    | 2609     | 0.346     | ug/l #     | 38       |
| 31) Cyclohexane               | 7.933  | 56    | 15126    | 0.751     | ug/l #     | 40       |
| 36) 1,1-Dichloropropene       | 7.933  | 75    | 45350    | 2.847     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.933  | 117   | 50205    | 3.440     | ug/l #     | 18       |
| 74) N-amyl acetate            | 12.286 | 43    | 641      | Below Cal | #          | 50       |
| 75) 1,1,2,2-Tetrachloroethane | 12.716 | 83    | 79       | Below Cal | #          | 25       |
| 76) 1,2,3-Trichloropropane    | 12.604 | 75    | 386296   | 40.001    | ug/l #     | 1        |
| 77) Bromobenzene              | 12.604 | 156   | 92       | Below Cal | #          | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.604 | 75    | 386296   | 75.601    | ug/l #     | 10       |
| 94) Hexachlorobutadiene       | 15.104 | 225   | 98       | Below Cal | #          | 18       |
| -----                         |        |       |          |           |            |          |

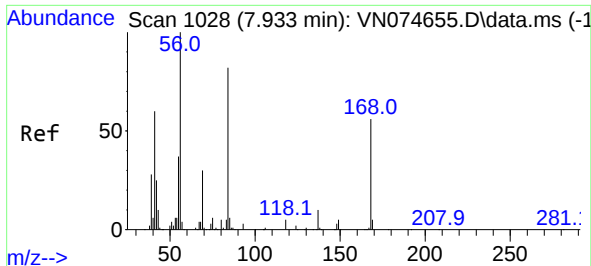
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
Data File : VN074706.D  
Acq On : 01 Oct 2022 10:28  
Operator : JC\MD  
Sample : sample  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 03 02:14:02 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 30 07:44:59 2022  
Response via : Initial Calibration

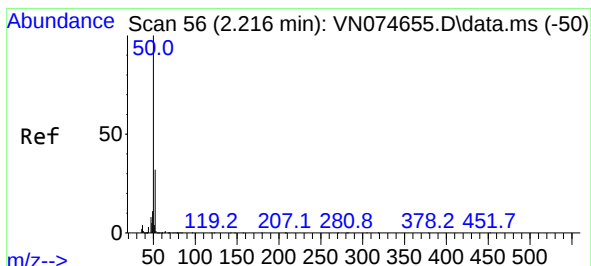
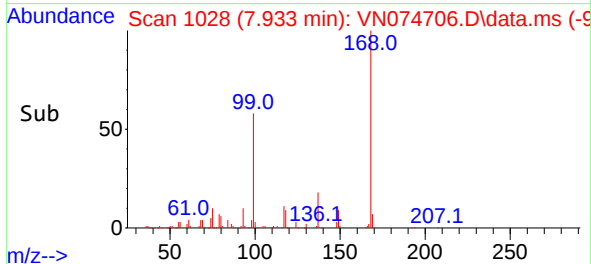
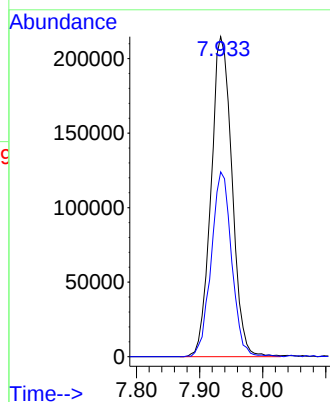
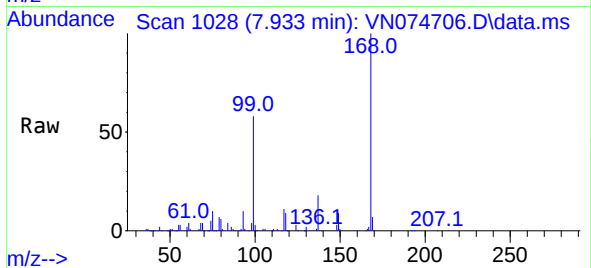




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.933 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

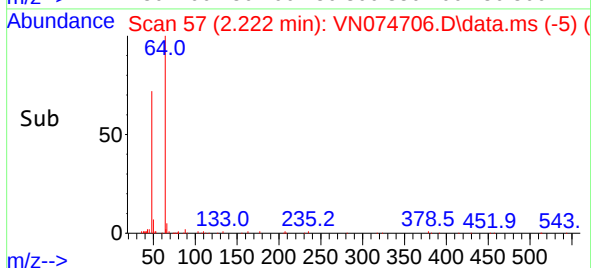
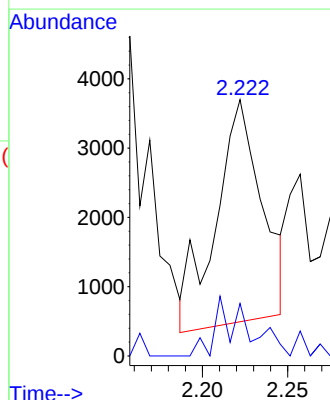
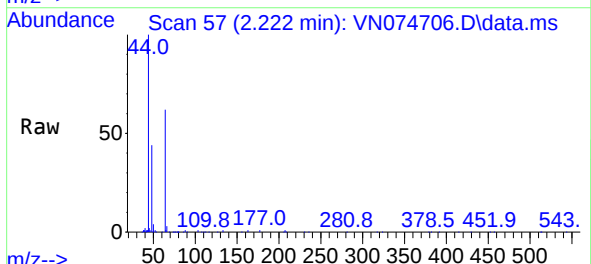
Instrument :  
MSVOA\_N  
ClientSampleId :

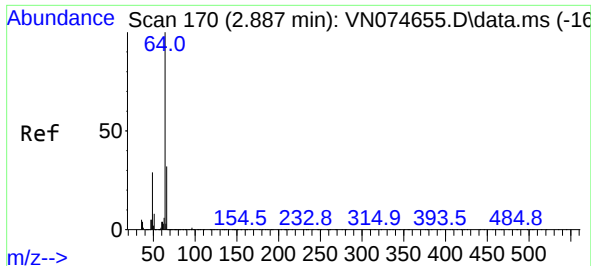
Tgt Ion:168 Resp: 494957  
Ion Ratio Lower Upper  
168 100  
99 57.7 42.3 63.5



#3  
Chloromethane  
Concen: 0.401 ug/l  
RT: 2.222 min Scan# 57  
Delta R.T. 0.006 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion: 50 Resp: 6073  
Ion Ratio Lower Upper  
50 100  
52 26.2 25.7 38.5

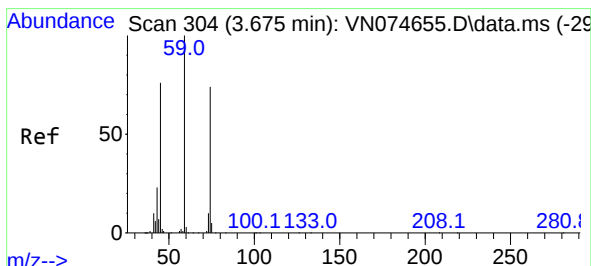
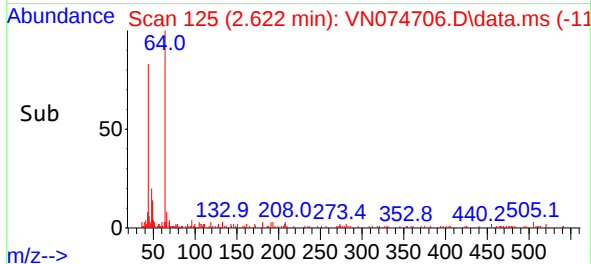
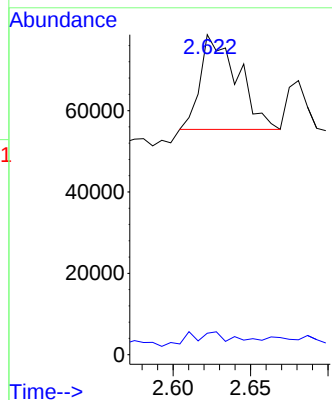
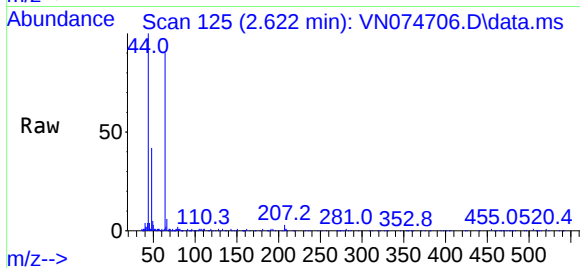




#6  
Chloroethane  
Concen: 2.307 ug/l  
RT: 2.622 min Scan# 11  
Delta R.T. -0.265 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

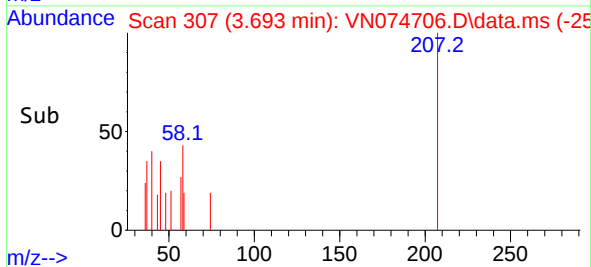
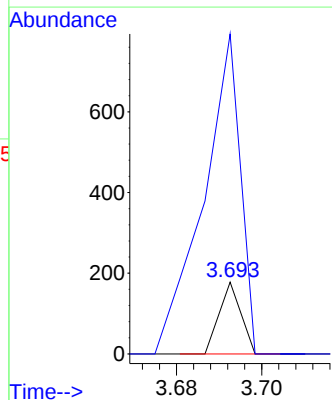
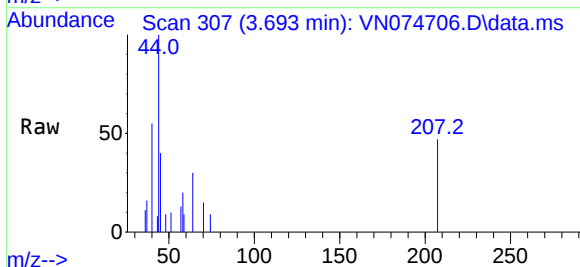
Instrument :  
MSVOA\_N  
ClientSampleId :

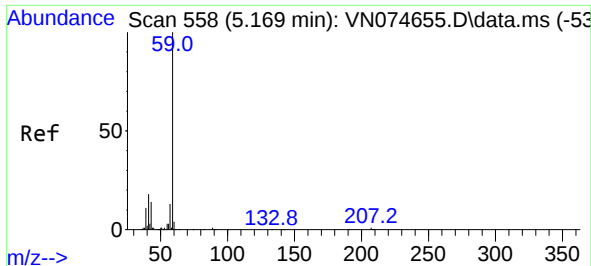
Tgt Ion: 64 Resp: 39018  
Ion Ratio Lower Upper  
64 100  
66 8.4 26.2 39.4#



#8  
Diethyl Ether  
Concen: Below Cal  
RT: 3.693 min Scan# 307  
Delta R.T. 0.018 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion: 74 Resp: 63  
Ion Ratio Lower Upper  
74 100  
45 760.3 42.9 128.5#

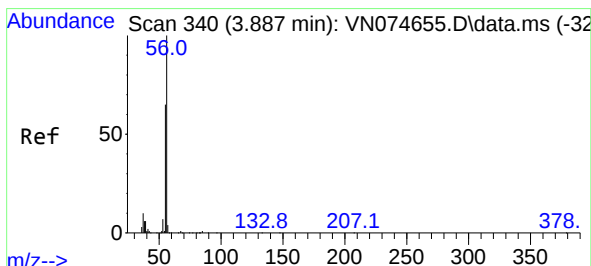
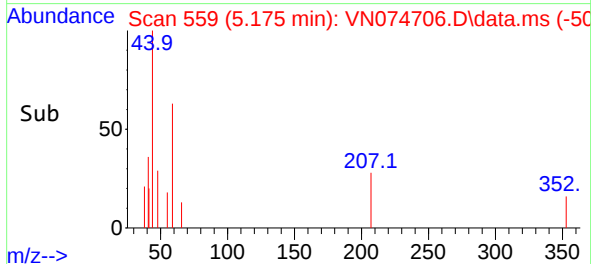
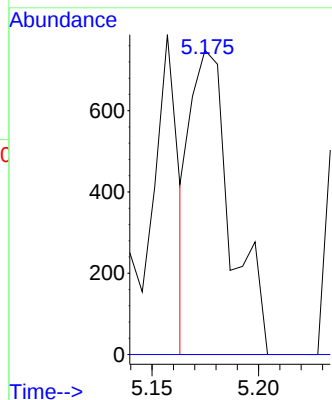
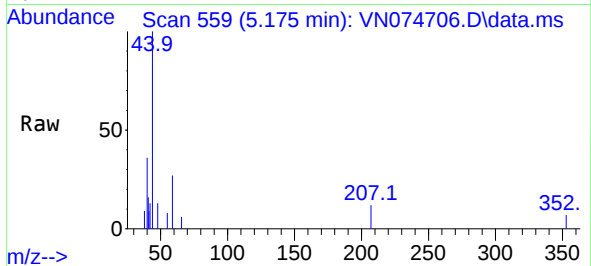




#11  
Tert butyl alcohol  
Concen: 0.298 ug/l  
RT: 5.175 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

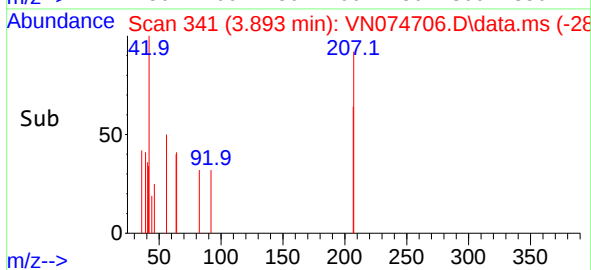
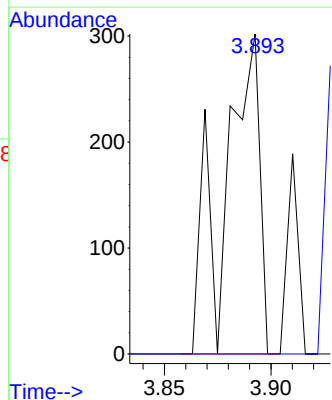
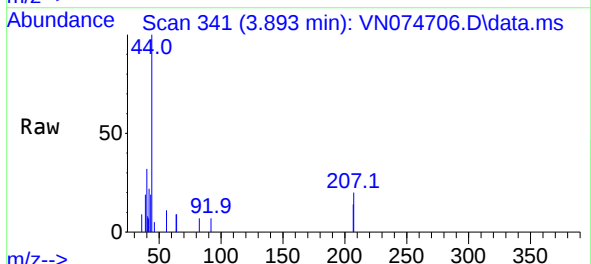
Instrument :  
MSVOA\_N  
ClientSampleId :

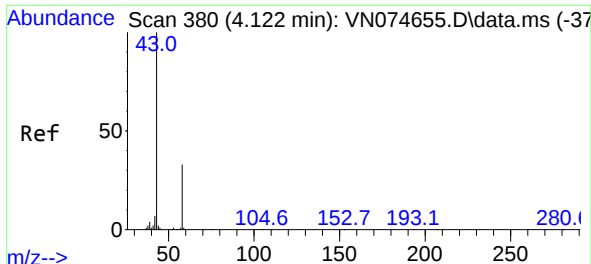
Tgt Ion: 59 Resp: 988  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.893 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion: 56 Resp: 349  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.8 82.2#

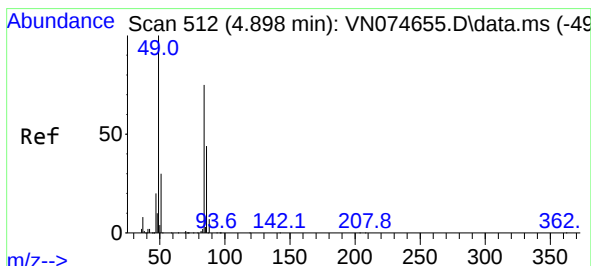
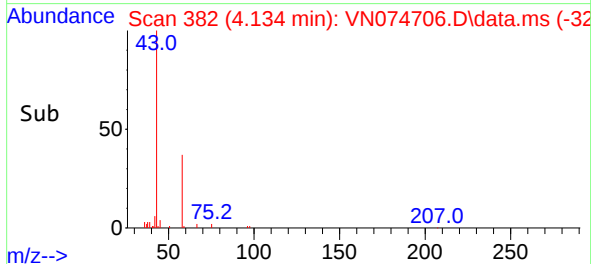
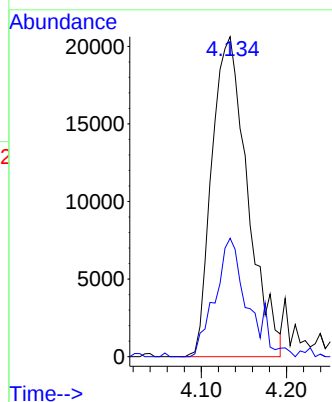
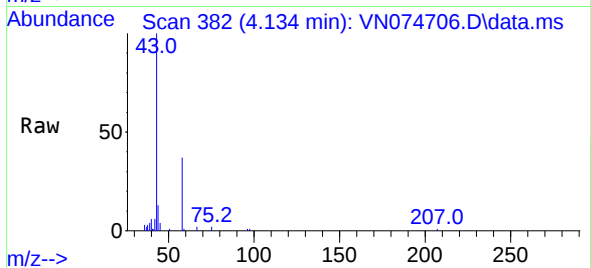




#16  
Acetone  
Concen: 4.373 ug/l  
RT: 4.134 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

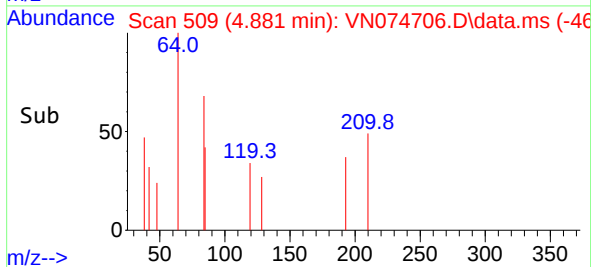
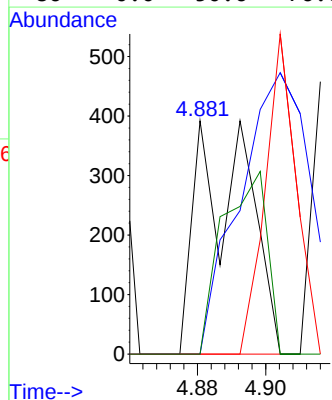
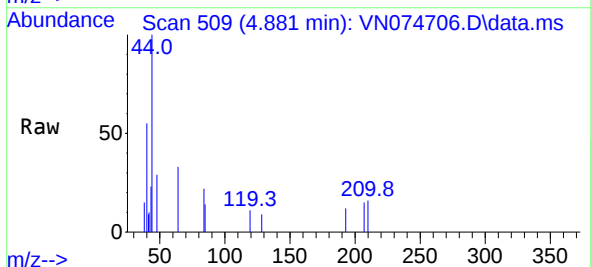
Instrument :  
MSVOA\_N  
ClientSampleId :

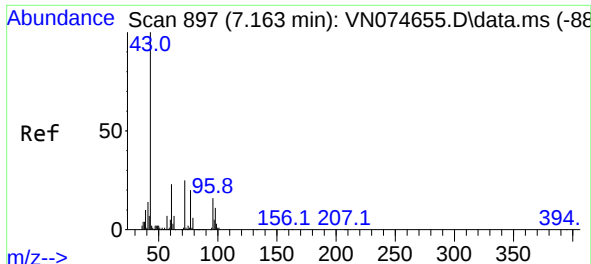
Tgt Ion: 43 Resp: 60009  
Ion Ratio Lower Upper  
43 100  
58 39.2 26.0 39.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.881 min Scan# 509  
Delta R.T. -0.017 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion: 84 Resp: 403  
Ion Ratio Lower Upper  
84 100  
49 0.0 88.3 132.5#  
51 0.0 28.2 42.2#  
86 0.0 50.6 76.0#

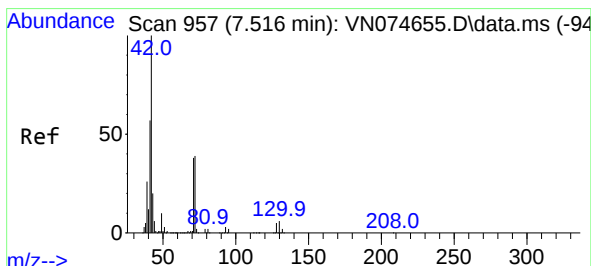
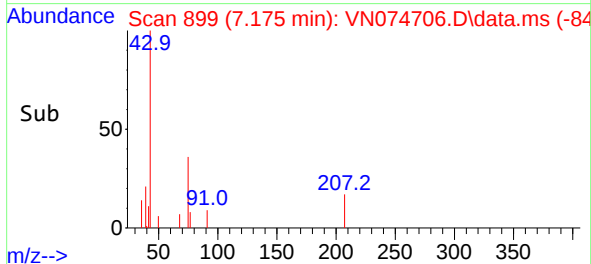
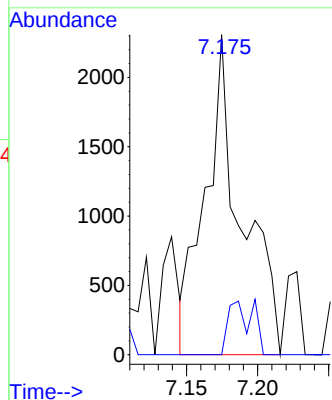
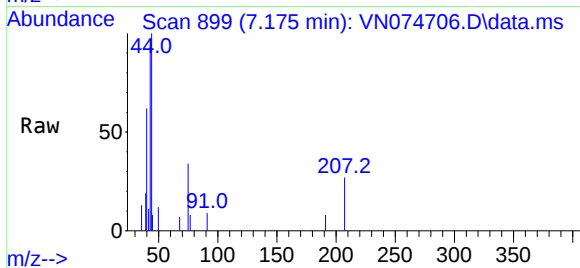




#25  
2-Butanone  
Concen: 0.357 ug/l  
RT: 7.175 min Scan# 899  
Delta R.T. 0.012 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

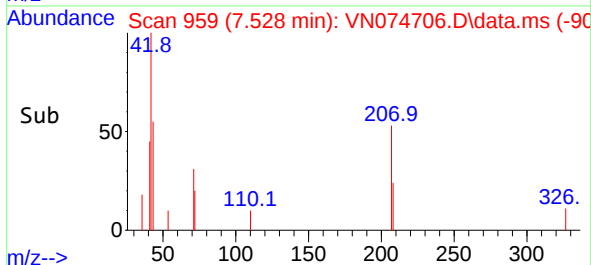
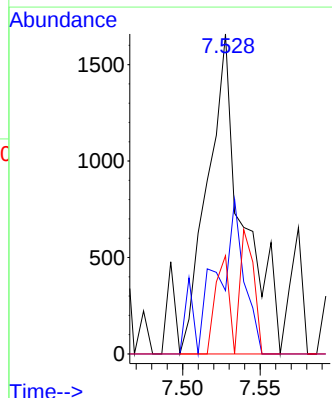
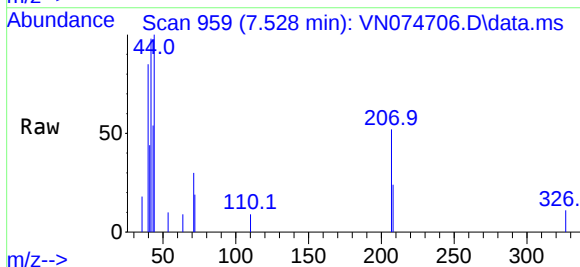
Instrument :  
MSVOA\_N  
ClientSampleId :

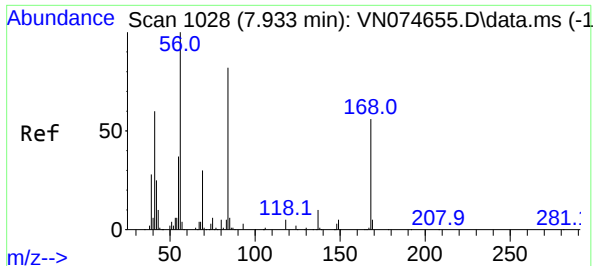
Tgt Ion: 43 Resp: 4074  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#29  
Tetrahydrofuran  
Concen: 0.346 ug/l  
RT: 7.528 min Scan# 959  
Delta R.T. 0.012 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

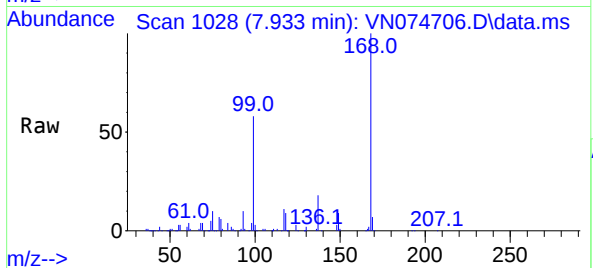
Tgt Ion: 42 Resp: 2609  
Ion Ratio Lower Upper  
42 100  
72 0.0 39.7 59.5#  
71 11.9 36.6 55.0#



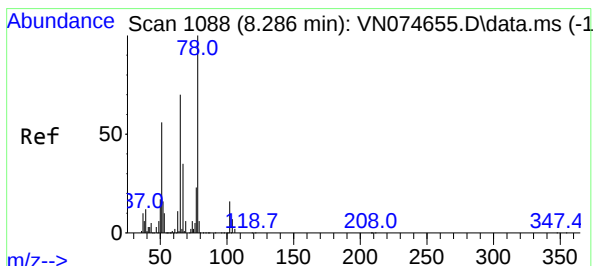
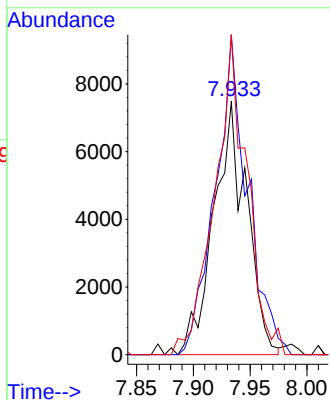
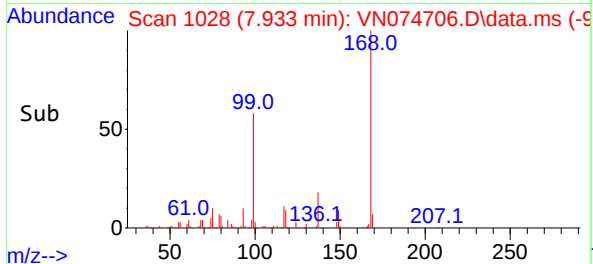


#31  
Cyclohexane  
Concen: 0.751 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. 0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

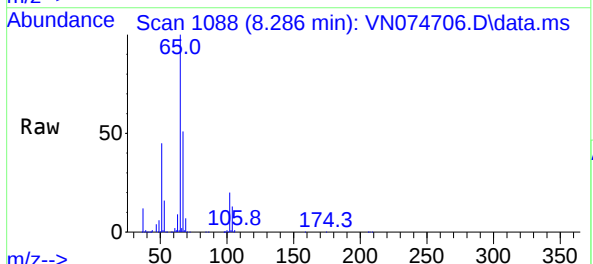
Instrument :  
MSVOA\_N  
ClientSampleId :



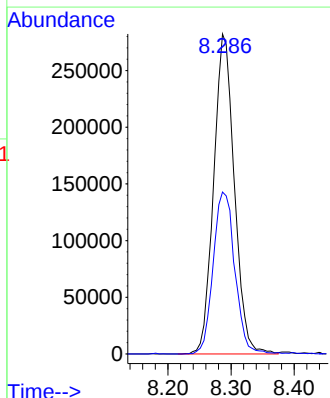
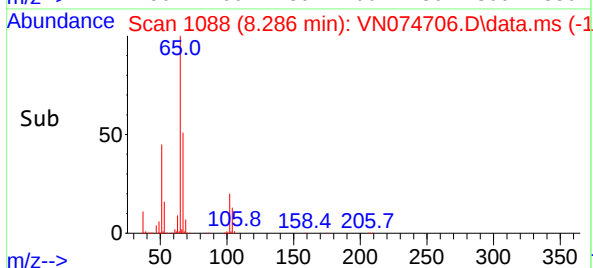
Tgt Ion: 56 Resp: 15126  
Ion Ratio Lower Upper  
56 100  
69 126.3 27.8 41.8#  
84 120.0 76.9 115.3#

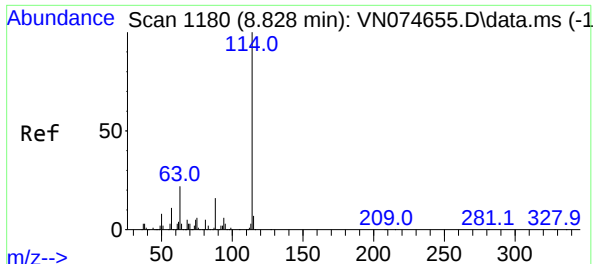


#33  
1,2-Dichloroethane-d4  
Concen: 51.729 ug/l  
RT: 8.286 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28



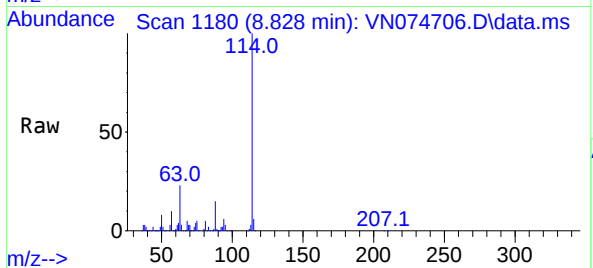
Tgt Ion: 65 Resp: 641684  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 104.8



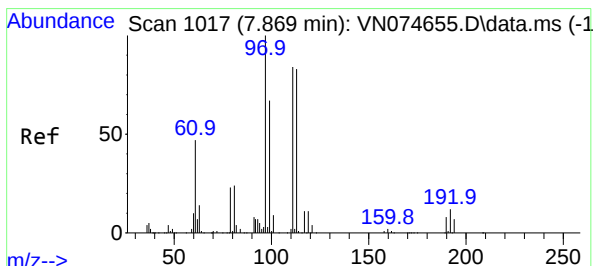
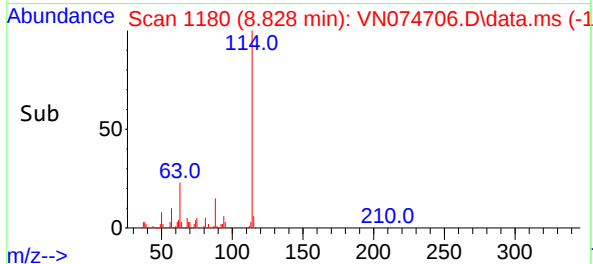
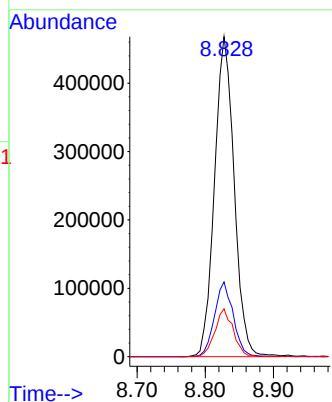


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.828 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Instrument :  
MSVOA\_N  
ClientSampleId :

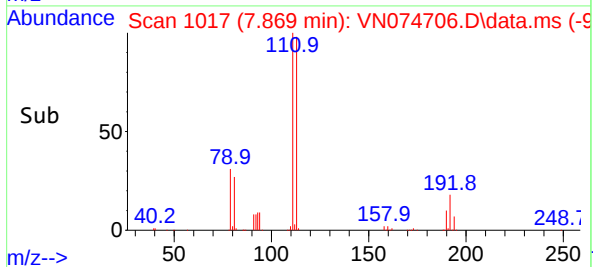
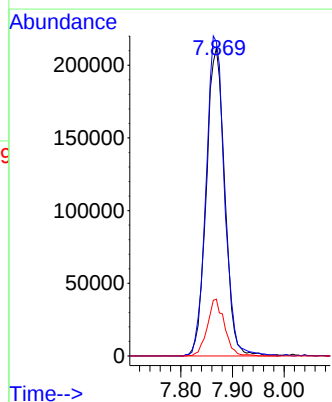
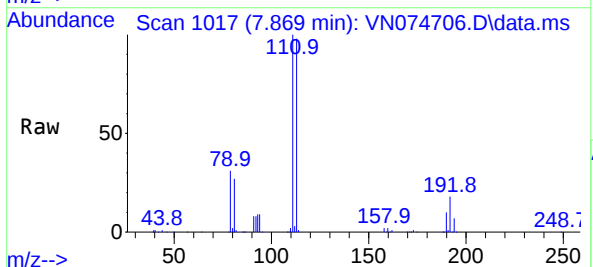


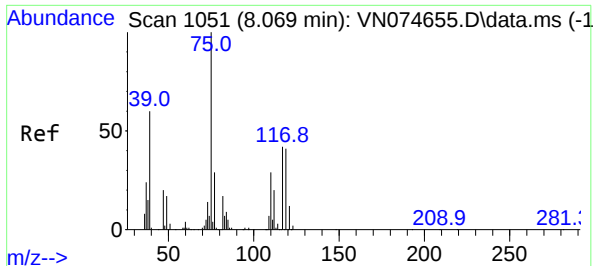
Tgt Ion:114 Resp: 939716  
Ion Ratio Lower Upper  
114 100  
63 23.3 0.0 40.0  
88 15.0 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 52.902 ug/l  
RT: 7.869 min Scan# 1017  
Delta R.T. -0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion:113 Resp: 526189  
Ion Ratio Lower Upper  
113 100  
111 103.4 81.4 122.0  
192 17.2 17.0 25.6

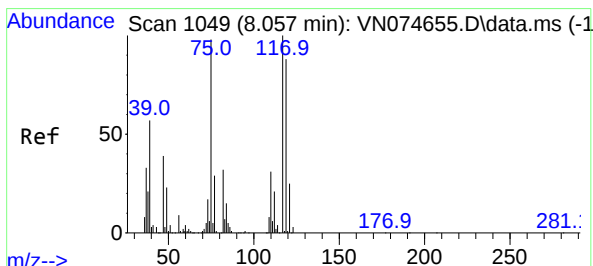
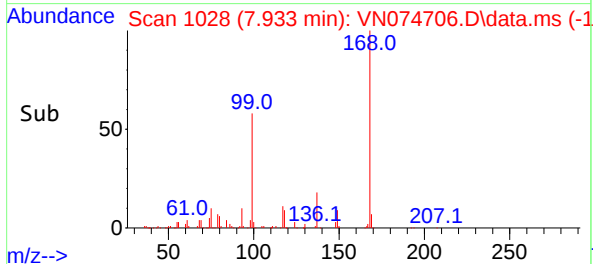
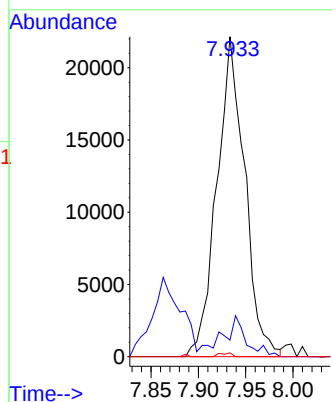
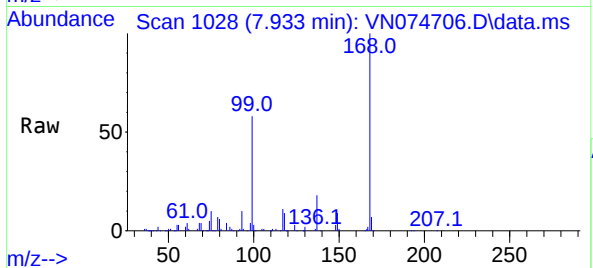




#36  
1,1-Dichloropropene  
Concen: 2.847 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. -0.136 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

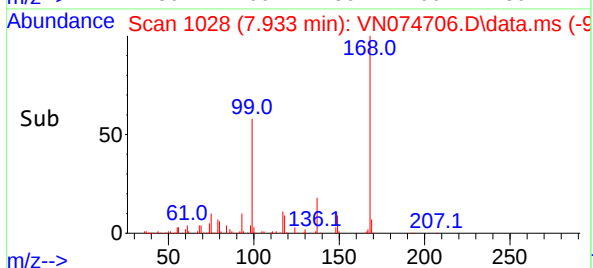
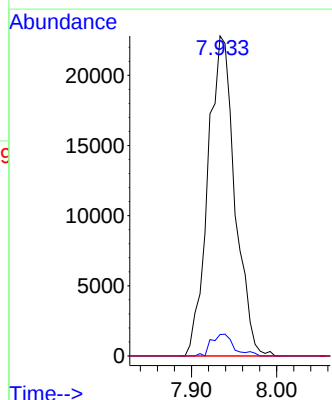
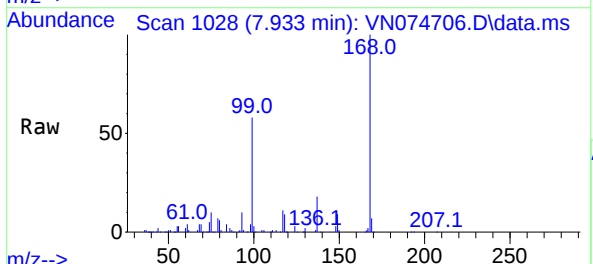
Instrument :  
MSVOA\_N  
ClientSampleId :

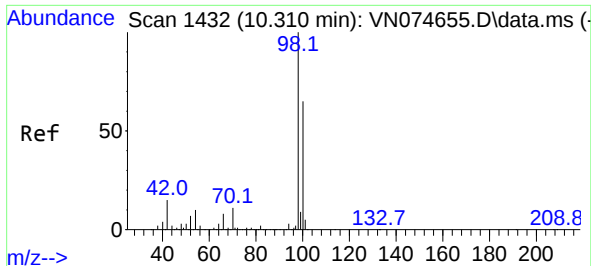
Tgt Ion: 75 Resp: 45350  
Ion Ratio Lower Upper  
75 100  
110 10.5 18.3 54.8#  
77 0.5 25.1 37.7#



#38  
Carbon Tetrachloride  
Concen: 3.440 ug/l  
RT: 7.933 min Scan# 1028  
Delta R.T. -0.124 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

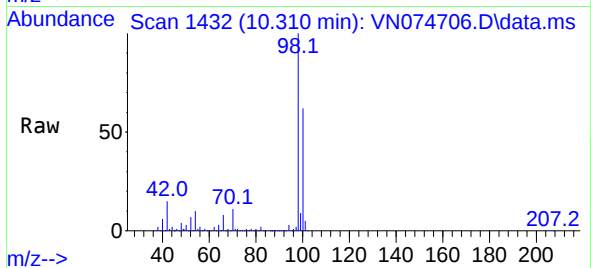
Tgt Ion: 117 Resp: 50205  
Ion Ratio Lower Upper  
117 100  
119 6.7 75.8 113.8#  
121 0.0 24.6 37.0#



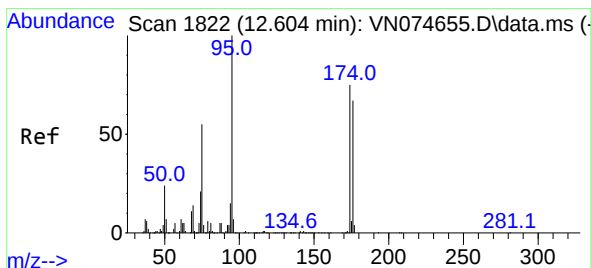
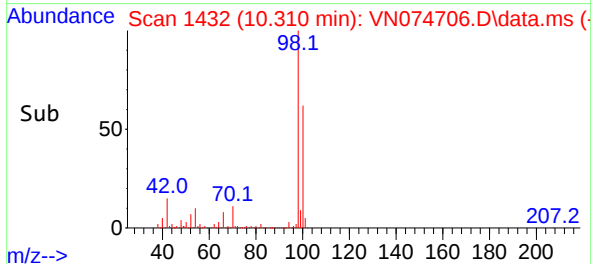
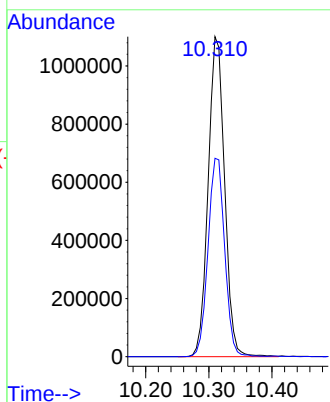


#50  
Toluene-d8  
Concen: 47.535 ug/l  
RT: 10.310 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Instrument :  
MSVOA\_N  
ClientSampleId :

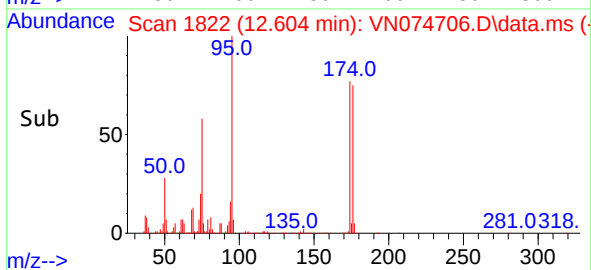
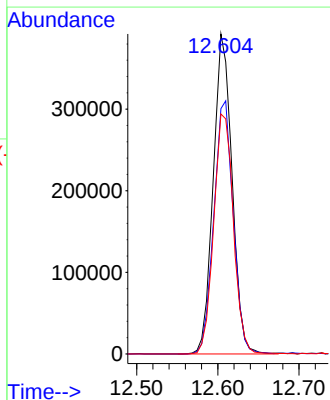
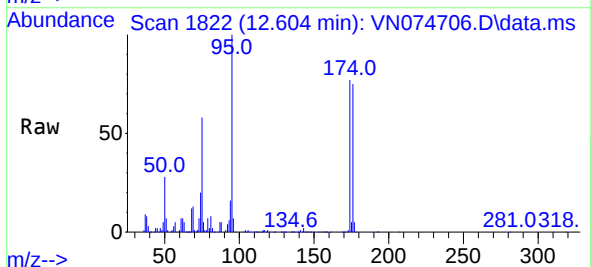


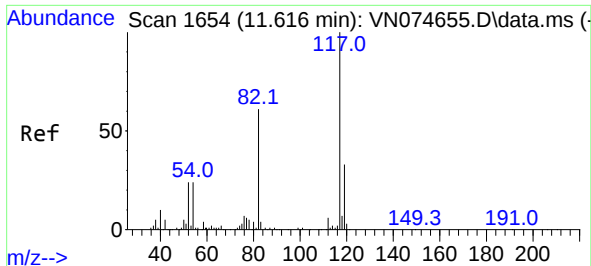
Tgt Ion: 98 Resp: 1988767  
Ion Ratio Lower Upper  
98 100  
100 62.9 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 47.713 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion: 95 Resp: 632979  
Ion Ratio Lower Upper  
95 100  
174 81.7 0.0 167.6  
176 78.3 0.0 163.4

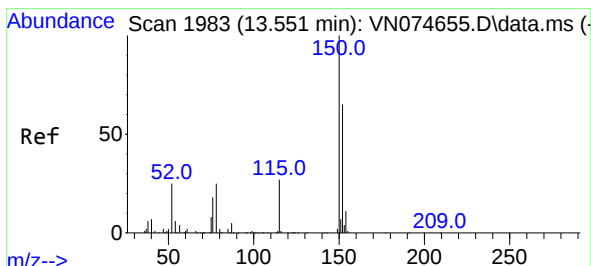
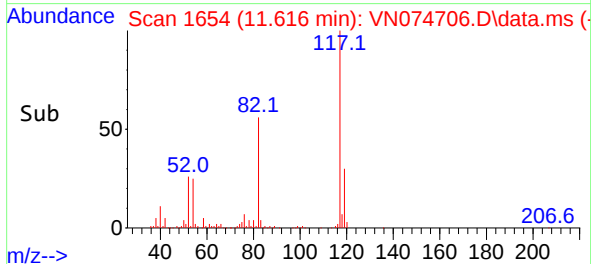
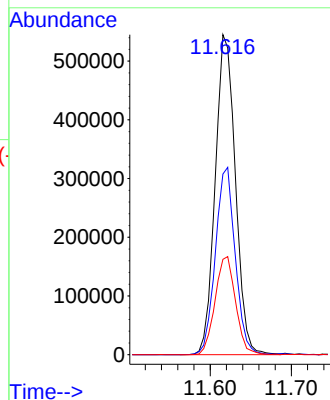
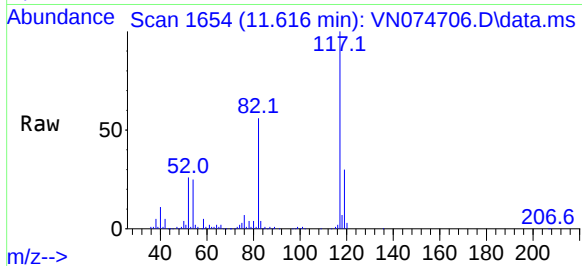




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.616 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

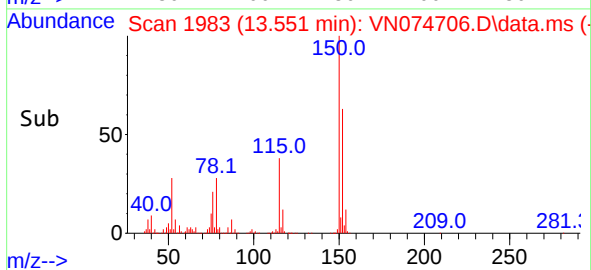
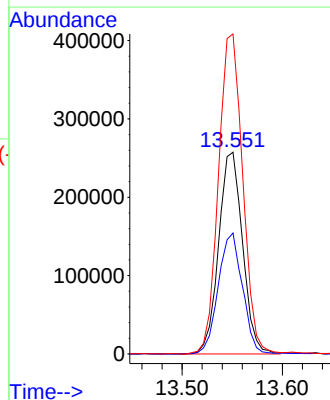
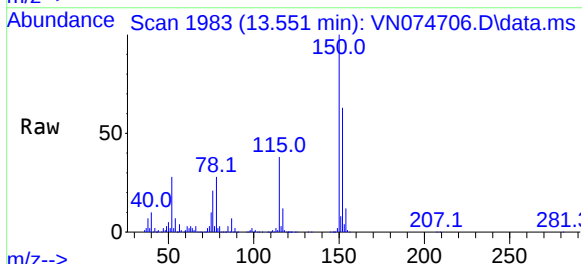
Instrument :  
MSVOA\_N  
ClientSampleId :

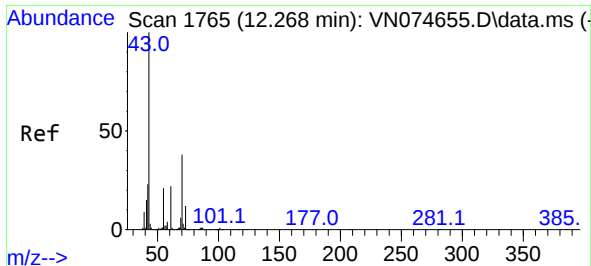
Tgt Ion:117 Resp: 942808  
Ion Ratio Lower Upper  
117 100  
82 56.5 44.2 66.2  
119 29.8 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.551 min Scan# 1983  
Delta R.T. -0.000 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

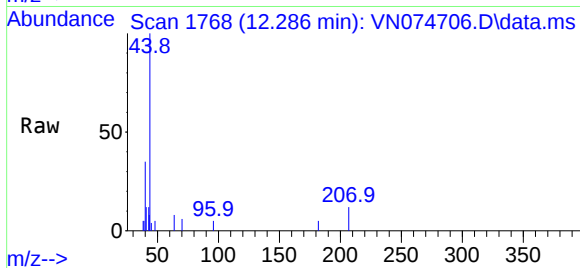
Tgt Ion:152 Resp: 426997  
Ion Ratio Lower Upper  
152 100  
115 60.7 28.9 86.7  
150 160.5 0.0 356.2



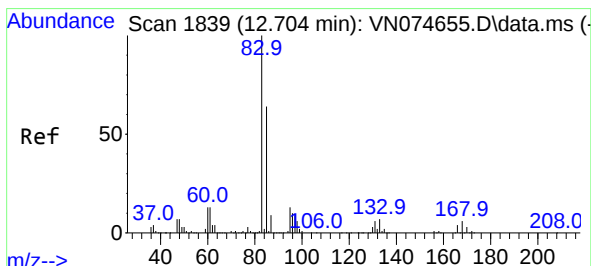
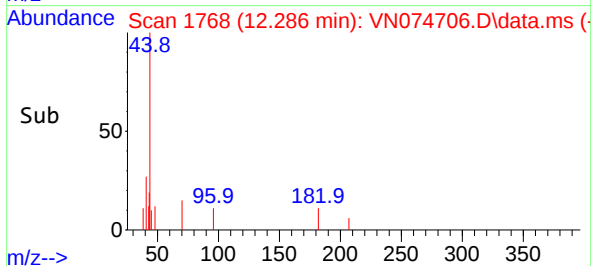
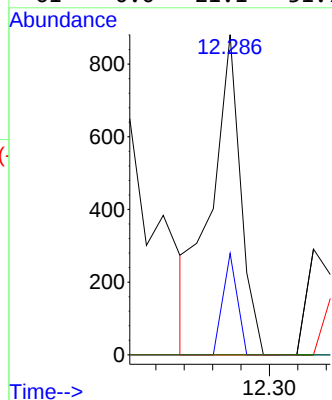


#74  
N-amy1 acetate  
Concen: Below Cal  
RT: 12.286 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Instrument :  
MSVOA\_N  
ClientSampleId :

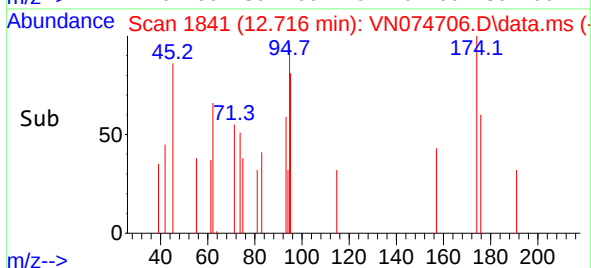
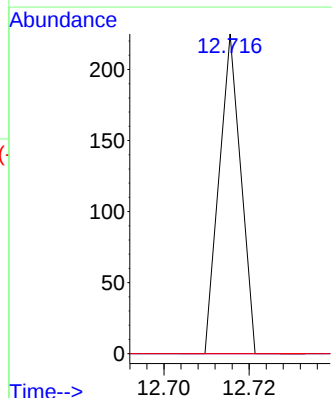
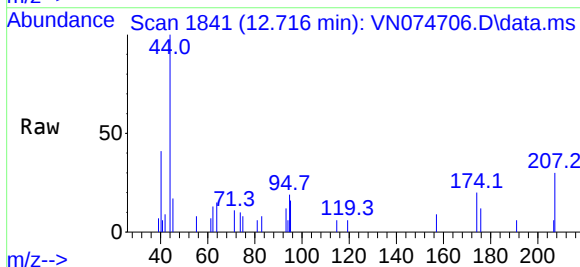


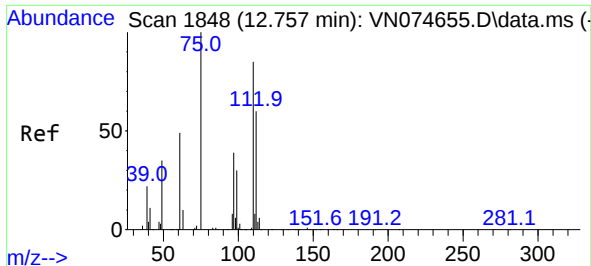
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 641   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 15.3  | 39.0  | 58.4# |
| 55       | 0.0   | 21.1  | 31.7# |
| 61       | 0.0   | 21.1  | 31.7# |



#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.716 min Scan# 1841  
Delta R.T. 0.011 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 79    |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 0.0   | 5.3   | 15.9# |
| 85       | 0.0   | 32.3  | 96.9# |

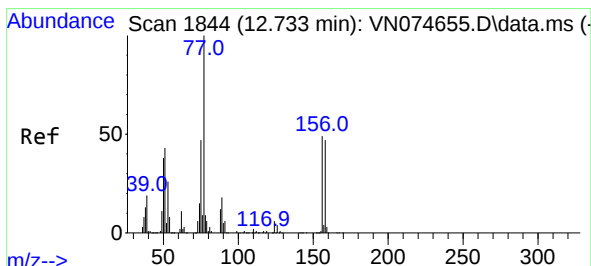
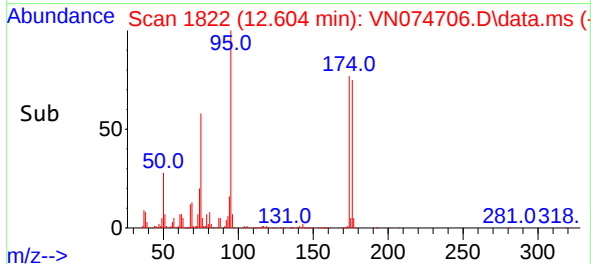
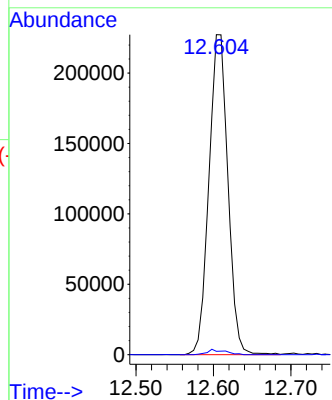
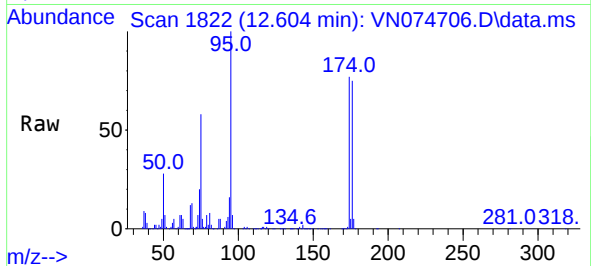




#76  
1,2,3-Trichloropropane  
Concen: 40.001 ug/l  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.153 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

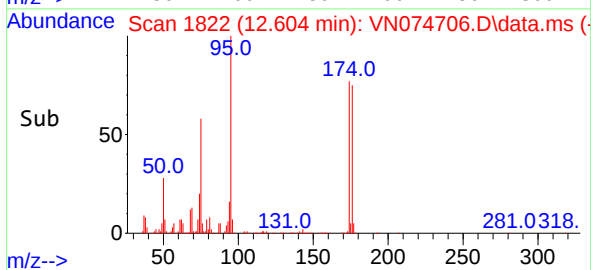
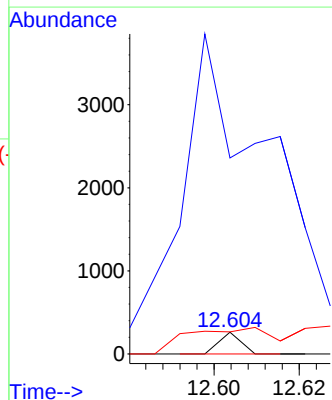
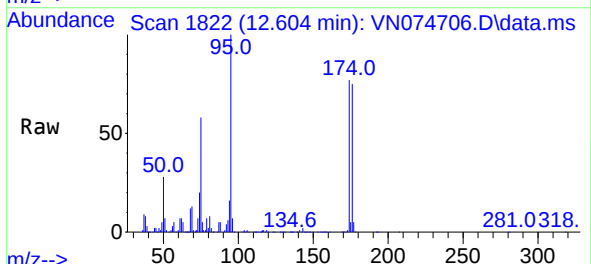
Instrument :  
MSVOA\_N  
ClientSampleId :

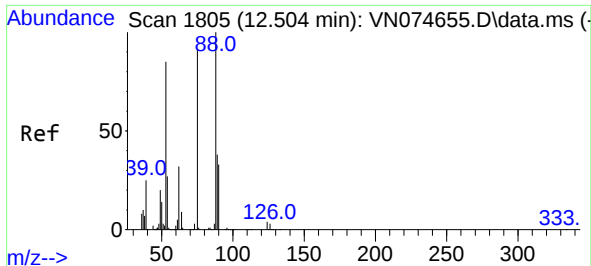
Tgt Ion: 75 Resp: 386296  
Ion Ratio Lower Upper  
75 100  
77 1.5 98.5 295.5#



#77  
Bromobenzene  
Concen: Below Cal  
RT: 12.604 min Scan# 1822  
Delta R.T. -0.129 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion:156 Resp: 92  
Ion Ratio Lower Upper  
156 100  
77 6498.9 100.5 301.5#  
158 482.6 48.9 146.6#

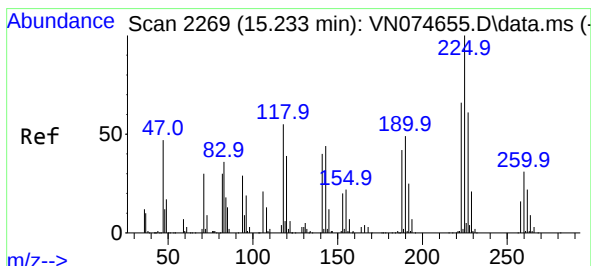
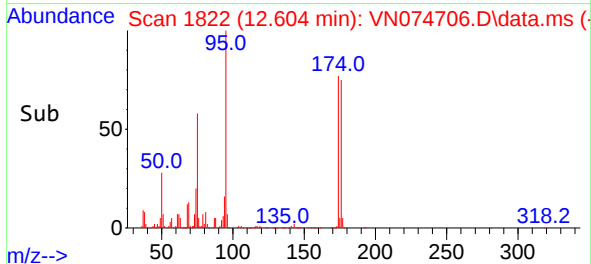
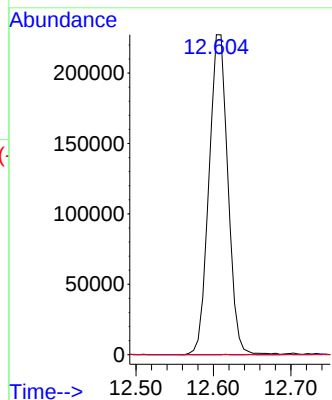
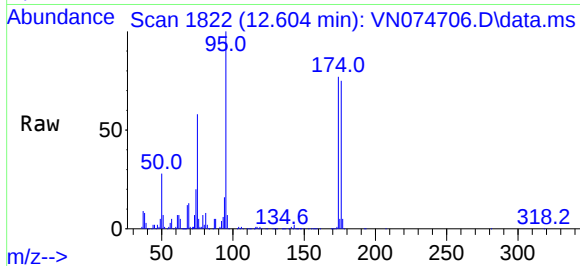




#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.601 ug/l  
RT: 12.604 min Scan# 1805  
Delta R.T. 0.100 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 386296  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 37.2 55.8#



#94  
Hexachlorobutadiene  
Concen: Below Cal  
RT: 15.104 min Scan# 2247  
Delta R.T. -0.129 min  
Lab File: VN074706.D  
Acq: 01 Oct 2022 10:28

Tgt Ion: 225 Resp: 98  
Ion Ratio Lower Upper  
225 100  
223 0.0 32.4 97.2#  
227 0.0 31.8 95.4#

